

AMENDMENTS

1. (Canceled)

2. (Currently amended) A high fluid loss spotting pill comprising:
a carrier fluid;

~~The high fluid loss spotting pill of claim 1 further comprising~~

a first quantity of weighting agent; ~~and~~

a second quantity of suspending agent effective to suspend said weighting agent;

an LCM consisting essentially of:

a third quantity of acid soluble mineral fiber; and;

an amount of acid soluble mineral particulate comprising a combination of

granular form and flake form;

said third quantity, said amount and said form being adapted to form a

substantially impermeable, acid soluble filtercake upon injection of said

composition with said carrier fluid into said wellbore and defluidization.

3. (Original) The high fluid loss spotting pill of claim 2 wherein said first quantity of weighting agent is adapted to produce a density substantially the same as the density of a drilling fluid used to drill a formation being treated.

4. (Original) The high fluid loss spotting pill of claim 2 wherein said first quantity of weighting agent produces a spotting pill having a density of at least about 9 ppg.

Claims 5-6. (Canceled).

7. (Original) The high fluid loss spotting pill of claim 2 wherein 85 wt.% or more of said LCM is acid soluble.

1 8. (Original) The high fluid loss spotting pill of claim 2 wherein 90 wt.% or
2 more of said LCM is acid soluble.

1 9. (Original) The high fluid loss spotting pill of claim 3 wherein 85 wt.% or
2 more of said LCM is acid soluble.

1 10. (Original) The high fluid loss spotting pill of claim 3 wherein 90 wt.% or
2 more of said LCM is acid soluble.

1 11. (Original) The high fluid loss spotting pill of claim 4 wherein 85 wt.% or
2 more of said LCM is acid soluble.

1 12. (Original) The high fluid loss spotting pill of claim 4 wherein 90 wt.% or
2 more of said LCM is acid soluble.

1 Claims 13-17. (Canceled).

1 18. (Original) The high fluid loss spotting pill of claim 2 wherein said acid
2 soluble mineral particulate is selected from the group consisting of salts of alkaline earth
3 metals, silicates, hematites, and acid soluble mineral oxides.

1 19. (Currently amended) The high fluid loss spotting pill of claim 2 wherein
2 said acid soluble mineral particulate is selected from the group consisting of preferably
3 carbonates of alkaline earth metals and silicates of alkaline earth minerals.

1 20. (Original) The high fluid loss spotting pill of claim 2 wherein said acid
2 soluble mineral particulate is a carbonate of an alkaline earth metal.

1 21. (Canceled).

1 22. (Original) The high fluid loss spotting pill of claim 20 wherein said
2 granular form is coarse grain and said flake form is fine grain.

1 23. (Currently amended) The high fluid loss spotting pill of claim [[21]] 2
2 wherein said granular form is coarse grain and said flake form is fine grain.

1 24. (Original) The high fluid loss spotting pill of claim 3 wherein said acid
2 soluble mineral particulate is selected from the group consisting of salts of alkaline earth
3 metals, silicates, hematites, and acid soluble mineral oxides.

1 25. (Original) The high fluid loss spotting pill of claim 3 wherein said acid
2 soluble mineral particulate is selected from the group consisting of preferably carbonates
3 of alkaline earth metals and silicates of alkaline earth minerals.

1 26. (Original) The high fluid loss spotting pill of claim 3 wherein said acid
2 soluble mineral particulate is a carbonate of an alkaline earth metal.

1 27. (Canceled)

1 28. (Currently amended) The high fluid loss spotting pill of claim [[27]] 3
2 wherein said granular form is coarse grain and said flake form is fine grain.

1 29. (Original) The high fluid loss spotting pill of claim 4 wherein said acid
2 soluble mineral particulate is selected from the group consisting of salts of alkaline earth
3 metals, silicates, hematites, and acid soluble mineral oxides.

1 30. (Original) The high fluid loss spotting pill of claim 4 wherein said acid
2 soluble mineral particulate is selected from the group consisting of preferably carbonates
3 of alkaline earth metals and silicates of alkaline earth minerals.

1 31. (Currently amended) The high fluid loss spotting pill of claim 4 wherein
2 said acid soluble mineral particulate is a ~~carbonates~~ carbonate of an alkaline earth metal.

1 32. (Canceled)

1 33. (Currently amended) The high fluid loss spotting pill of claim [[32]] 4
2 wherein said granular form is coarse grain and said flake form is fine grain.

1 34. (Original) The high fluid loss spotting pill of claim 2 having a yield point
2 of about 5 or more.

1 35. (Original) The high fluid loss spotting pill of claim 3 having a yield point
2 of about 5 or more.

1 36. (Original) The high fluid loss spotting pill of claim 4 having a yield point
2 of about 5 or more.

1 37. (Canceled).

1 38. (Canceled).

1 39. (Currently amended) The high fluid loss spotting pill of claim [[38]] 114
2 wherein said first quantity of weighting agent produces a spotting pill having a density of
3 at least about 9 ppg.

1 40. (Currently amended) The high fluid loss spotting pill of claim [[38]] 114
2 wherein 85 wt.% or more of said LCM is acid soluble.

1 41. (Currently amended) The high fluid loss spotting pill of claim [[38]] 114
2 wherein 90 wt.% or more of said LCM is acid soluble.

1 42. (Original) The high fluid loss spotting pill of claim 39 wherein 85 wt.%
2 or more of said LCM is acid soluble.

1 43. (Original) The high fluid loss spotting pill of claim 39 wherein 90 wt.%
2 or more of said LCM is acid soluble.

1 44. (Currently amended) The high fluid loss spotting pill of claim [[38]] 114
2 wherein said acid soluble mineral particulate is selected from the group consisting of salts
3 of alkaline earth metals, silicates, hematites, and acid soluble mineral oxides.

1 45. (Currently amended) The high fluid loss spotting pill of claim [[38]] 114
2 wherein said acid soluble mineral particulate is selected from the group consisting of
3 preferably carbonates of alkaline earth metals and silicates of alkaline earth minerals.

1 46. (Currently amended) The high fluid loss spotting pill of claim [[38]] 114
2 wherein said acid soluble mineral particulate is a carbonate of an alkaline earth metal.

1 47. (Currently amended) ~~The high fluid loss spotting pill of claim 45 wherein~~
2 ~~said acid soluble mineral particulate is a combination of granular form and flake form.~~

3 A high fluid loss spotting pill comprising:

4 a carrier fluid;

5 a first quantity of weighting agent adapted to produce a density substantially the
6 same as the density of a drilling fluid used to drill a formation being

7 treated;

8 a second quantity of suspending agent effective to suspend said weighting agent
9 in said carrier fluid;

10 an LCM consisting essentially of:

11 a third quantity of acid soluble mineral fiber; and;

12 an amount of acid soluble mineral particulate;

13 wherein said acid soluble mineral particulate is selected from the group consisting
14 of preferably carbonates of alkaline earth metals and silicates of alkaline
15 earth minerals;

16 said third quantity, said amount, and said form being adapted to form a
17 substantially impermeable, acid soluble filtercake upon injection of said
18 composition with an effective carrier fluid into said wellbore and
19 defluidization.

1 48. (Currently amended) ~~The high fluid loss spotting pill of claim 46 wherein~~
2 ~~said acid soluble mineral particulate is a combination of granular form and flake form.~~

3 A high fluid loss spotting pill comprising:

4 a carrier fluid;

5 a first quantity of weighting agent adapted to produce a density substantially the
6 same as the density of a drilling fluid used to drill a formation being
7 treated;

8 a second quantity of suspending agent effective to suspend said weighting agent
9 in said carrier fluid;

10 an LCM consisting essentially of:

11 a third quantity of acid soluble mineral fiber; and;

12 an amount of acid soluble mineral particulate comprising a carbonate of an
13 alkaline earth metal, wherein said acid soluble mineral particulate is a
14 combination of granular form and flake form;

15 said third quantity, said amount, and said form being adapted to form a
16 substantially impermeable, acid soluble filtercake upon injection of said
17 composition with an effective carrier fluid into said wellbore and
18 defluidization.

1 49. (Original) The high fluid loss spotting pill of claim 47 wherein said
2 granular form is fine grain and said flake form is fine grain.

1 50. (Original) The high fluid loss spotting pill of claim 39 wherein said acid
2 soluble mineral particulate is selected from the group consisting of salts of alkaline earth
3 metals, silicates, hematites, and acid soluble mineral oxides.

1 51. (Original) The high fluid loss spotting pill of claim 39 wherein said acid
2 soluble mineral particulate is selected from the group consisting of preferably carbonates
3 of alkaline earth metals and silicates of alkaline earth minerals.

1 52. (Original) The high fluid loss spotting pill of claim 39 wherein said acid
2 soluble mineral particulate is calcium carbonate.

1 53. (Currently amended) ~~The high fluid loss spotting pill of claim 52 wherein~~
2 ~~said calcium carbonate is~~

3 A high fluid loss spotting pill comprising:

4 a carrier fluid;

5 a first quantity of weighting agent adapted to produce said spotting pill having a
6 density of about 9 ppg;

7 a second quantity of suspending agent effective to suspend said weighting agent
8 in said carrier fluid;

9 an LCM consisting essentially of:

10 a third quantity of acid soluble mineral fiber; and;

11 an amount of acid soluble mineral particulate comprising calcium

12 carbonate comprising a combination of granular form and flake
13 form;

14 said third quantity, said amount, and said form being adapted to form a
15 substantially impermeable, acid soluble filtercake upon injection of said
16 composition with an effective carrier fluid into said wellbore and
17 defluidization.

1 54. (Original) The high fluid loss spotting pill of claim 53 wherein said
2 granular form is fine grain and said flake form is fine grain.

1 55. (Currently amended) The high fluid loss spotting pill of claim [[38]] 114
2 having a yield point of about 5 or more.

1 56. (Original) The high fluid loss spotting pill of claim 39 having a yield
2 point of about 5 or more.

1 57. (Canceled).

1 58. (Currently amended) ~~The high fluid loss spotting pill of claim 57 wherein~~
2 ~~said calcium carbonate particulate comprises~~

3 A high fluid loss spotting pill comprising:

4 a carrier fluid;

5 a first quantity of weighting agent adapted to produce a density substantially the
6 same as the density of a drilling fluid used to drill a formation being

7 treated;

8 a second quantity of suspending agent effective to suspend said weighting agent
9 in said carrier fluid;

10 an amount of LCM consisting essentially of calcium carbonate particulate
11 comprising granular form and flake form;

12 said quantity, said amount, and said form being adapted to form a substantially
13 impermeable, acid soluble filtercake upon injection of said composition
14 with an effective carrier fluid into said wellbore and defluidization.

1 59. (Original) The high fluid loss spotting pill of claim 58 wherein said
2 granular form is coarse grain and said flake form is fine grain.

1 60. (Canceled)

1 61. (Original) The high fluid loss spotting pill of claim 58 wherein said first
2 quantity of said weighting agent produces a spotting pill having a density of at least about
3 9 ppg.

1 62. (Original) The high fluid loss spotting pill of claim 59 wherein said first
2 quantity of said weighting agent produces a spotting pill having a density of at least about
3 9 ppg.

1 63. (Canceled).

1 64. (Currently amended) ~~The high fluid loss spotting pill of claim 63 wherein~~
2 ~~said calcium carbonate particulate comprises~~

3 A high fluid loss spotting pill comprising:

4 a carrier fluid;

5 a first quantity of weighting agent adapted to produce a density substantially the
6 same as the density of a drilling fluid used to drill a formation being
7 treated;

8 a second quantity of suspending agent effective to suspend said weighting agent
9 in said carrier fluid;

10 an LCM consisting essentially of:

11 a third quantity of acid soluble mineral fiber; and;

12 an amount of calcium carbonate particulate comprising granular form and
13 flake form;

14 said quantity, said amount, and said form being adapted to form a substantially
15 impermeable, acid soluble filtercake upon injection of said composition
16 with an effective carrier fluid into said wellbore and defluidization.

1 65. (Curently amended) The high fluid loss spotting pill of claim [[63]] 64
2 wherein said granular form is fine grain and said flake form is fine grain.

3
1 66. (Canceled)
2

1 67. (Original) The high fluid loss spotting pill of claim 64 wherein said first
2 quantity of said weighting agent produces a spotting pill having a density of at least about
3 9 ppg.

1 68. (Original) The high fluid loss spotting pill of claim 65 wherein said first
2 quantity of said weighting agent produces a spotting pill having a density of at least about
3 9 ppg.

1 69. (Currently amended) The high fluid loss spotting pill of claim [[63]] 64
2 wherein said carrier fluid is water based.

1 70. (Currently amended) The high fluid loss spotting pill of claim [[63]] 64
2 wherein said carrier fluid is oil based.

1 71. (Currently amended) ~~The high fluid loss spotting pill of claim 57~~ A high
2 fluid loss spotting pill comprising:
3 a carrier fluid;

4 a first quantity of weighting agent adapted to produce a density substantially the
5 same as the density of a drilling fluid used to drill a formation being
6 treated;

7 a second quantity of suspending agent effective to suspend said weighting agent
8 in said carrier fluid;

9 an amount of LCM consisting essentially of calcium carbonate particulate;

10 said quantity, said amount, and said form being adapted to form a substantially
11 impermeable, acid soluble filtercake upon injection of said composition
12 with an effective carrier fluid into said wellbore and defluidization;

13 wherein the following weight percent of the composition passes through screens
14 having the following mesh sizes:

15	10	5	% to	10	%
16	14	5	% to	10	%
17	18	1	% to	5	%
18	20	1	% to	5	%
19	25	1	% to	5	%
20	>25	87	% to	65	%.

1 72. (Currently amended) The high fluid loss spotting pill of claim [[63]] 64
2 wherein the following weight percent of the composition passes through screens having
3 the following mesh sizes:

4	10	8	%
5	14	7	%
6	18	3	%
7	20	1	%
8	25	1	%.

1 73. (Currently amended) The high fluid loss spotting pill of claim [[57]] 58
2 wherein said third quantity is 10 wt.% or more of said composition.

1 74. (Currently amended) The high fluid loss spotting pill of claim [[57]] 58
2 wherein said third quantity is about 25 wt.% of said composition.

1 75. (Original) The high fluid loss spotting pill of claim 73 wherein said
2 amount is about 50 wt.% of said composition.

1 76. (Original) The high fluid loss spotting pill of claim 74 wherein said
2 amount is about 50 wt.% of said composition.

1 77. (Original) The high fluid loss spotting pill of claim 59 wherein said third
2 quantity is 10 wt.% or more of said composition.

1 78. (Original) The high fluid loss spotting pill of claim 59 wherein said third
2 quantity is about 25 wt.% of said composition.

1 79. (Original) The high fluid loss spotting pill of claim 77 wherein said
2 amount is about 50 wt.% of said composition.

1 80. (Original) The high fluid loss spotting pill of claim 78 wherein said
2 amount is about 50 wt.% of said composition.

1 81. (Currently amended) The high fluid loss spotting pill of claim [[63]] 64
2 wherein said third quantity is 10 wt.% or more of said composition.

1 82. (Currently amended) The high fluid loss spotting pill of claim [[63]] 64
2 wherein said third quantity is about 25 wt.% of said composition.

1 83. (Currently amended) ~~The high fluid loss spotting pill of claim 81 wherein~~
2 ~~said amount is~~ A high fluid loss spotting pill comprising:

3 a carrier fluid;

4 a first quantity of weighting agent adapted to produce a density substantially the
5 same as the density of a drilling fluid used to drill a formation being
6 treated;
7 a second quantity of suspending agent effective to suspend said weighting agent
8 in said carrier fluid;
9 an LCM consisting essentially of:
10 a third quantity of acid soluble mineral fiber, said third quantity
11 comprising 10% or more of said composition; and;
12 an amount of calcium carbonate particulate, said amount comprising about 50
13 wt.% of said composition;
14 said quantity, said amount, and said form being adapted to form a substantially
15 impermeable, acid soluble filtercake upon injection of said composition
16 with an effective carrier fluid into said wellbore and defluidization.

1 84. (Currently amended) ~~The high fluid loss spotting pill of claim 82 wherein~~
2 ~~said amount is~~ A high fluid loss spotting pill comprising:

3 a carrier fluid;
4 a first quantity of weighting agent adapted to produce a density substantially the
5 same as the density of a drilling fluid used to drill a formation being
6 treated;
7 a second quantity of suspending agent effective to suspend said weighting agent
8 in said carrier fluid;
9 an LCM consisting essentially of:

10 a third quantity of acid soluble mineral fiber, said third quantity
11 comprising 25% or more of said composition; and;
12 an amount of calcium carbonate particulate, said amount comprising about
13 50 wt.% of said composition;
14 said quantity, said amount, and said form being adapted to form a substantially
15 impermeable, acid soluble filtercake upon injection of said composition
16 with an effective carrier fluid into said wellbore and defluidization.

1 85. (Original) The high fluid loss spotting pill of claim 65 wherein said third
2 quantity is 10 wt.% or more of said composition.

1 86. (Original) The high fluid loss spotting pill of claim 65 wherein said third
2 quantity is about 25 wt.% of said composition.

1 87. (Original) The high fluid loss spotting pill of claim 85 wherein said
2 amount is about 50 wt.% of said composition.

1 88. (Original) The high fluid loss spotting pill of claim 86 wherein said
2 amount is about 50 wt.% of said composition.

1 89. (Currently amended) A high fluid loss spotting pill comprising:
2 a carrier fluid;
3 an LCM consisting essentially of an amount and form of acid soluble mineral
4 particulate comprising granular form and flake form;
5 said amount and said form being adapted to form a substantially impermeable,
6 acid soluble filtercake upon injection of said composition with said carrier
7 fluid into said wellbore and defluidization;
8 a first quantity of weighting agent; and

9 a second quantity of suspending agent effective to suspend said weighting agent,
10 said suspending agent being selected from the group consisting of
11 attapulgate, quaternized attapulgate, and a combination thereof.

1 90. (Original) The high fluid loss spotting pill of claim 3 wherein said
2 suspending agent is selected from the group consisting of attapulgate and quaternized
3 attapulgate.

1 91. (Original) The high fluid loss spotting pill of claim 4 wherein said
2 suspending agent is selected from the group consisting of attapulgate and quaternized
3 attapulgate.

1 92. (Original) The high fluid loss spotting pill of claim 7 wherein said
2 suspending agent is selected from the group consisting of attapulgate and quaternized
3 attapulgate.

1 93. (Original) The high fluid loss spotting pill of claim 20 wherein said
2 suspending agent is selected from the group consisting of attapulgate and quaternized
3 attapulgate.

1 94. (Currently amended) ~~The high fluid loss spotting pill of claim 21~~

2 A high fluid loss spotting pill comprising:

3 a carrier fluid;

4 a first quantity of weighting agent;

5 a second quantity of suspending agent effective to suspend said weighting agent,

6 wherein said suspending agent is selected from the group consisting of

7 attapulgate and quaternized attapulgate;

8 an LCM consisting essentially of:

9 a third quantity of acid soluble mineral fiber; and;
10 an amount of acid soluble mineral particulate comprising a carbonate of an
11 alkaline earth metal, wherein said particulate is a combination of granular
12 form and flake form;
13 said third quantity, said amount and said form being adapted to form a
14 substantially impermeable, acid soluble filtercake upon injection of said
15 composition with said carrier fluid into said wellbore and defluidization.

1 95. (Original) The high fluid loss spotting pill of claim 23 wherein said
2 suspending agent is selected from the group consisting of attapulgite and quaternized
3 attapulgite.

1 96. (Currently amended) ~~The high fluid loss spotting pill of claim 38~~
2 A high fluid loss spotting pill comprising:
3 a carrier fluid;
4 a first quantity of weighting agent adapted to produce a density substantially the
5 same as the density of a drilling fluid used to drill a formation being
6 treated;
7 a second quantity of suspending agent effective to suspend said weighting agent
8 in said carrier fluid wherein said suspending agent is selected from the
9 group consisting of attapulgite and quaternized attapulgite;
10 an LCM consisting essentially of:
11 a third quantity of acid soluble mineral fiber; and;
12 an amount of acid soluble mineral particulate;

13 said third quantity, said amount, and said form being adapted to form a
14 substantially impermeable, acid soluble filtercake upon injection of said
15 composition with an effective carrier fluid into said wellbore and
16 defluidization.

1 97. (Original) The high fluid loss spotting pill of claim 40 wherein said
2 suspending agent is selected from the group consisting of attapulgite and quaternized
3 attapulgite.

1 98. (Original) The high fluid loss spotting pill of claim 45 wherein said
2 suspending agent is selected from the group consisting of attapulgite and quaternized
3 attapulgite.

1 99. (Original) The high fluid loss spotting pill of claim 49 wherein said
2 suspending agent is selected from the group consisting of attapulgite and quaternized
3 attapulgite.

1 100. (Original) The high fluid loss spotting pill of claim 54 wherein said
2 suspending agent is selected from the group consisting of attapulgite and quaternized
3 attapulgite.

1 101. (Canceled)

1 102. (Original) The high fluid loss spotting pill of claim 58 wherein said
2 suspending agent is selected from the group consisting of attapulgite and quaternized
3 attapulgite.

1 103. (Original) The high fluid loss spotting pill of claim 59 wherein said
2 suspending agent is selected from the group consisting of attapulgite and quaternized
3 attapulgite.

104. (Canceled).

105. (Original) The high fluid loss spotting pill of claim 64 wherein said suspending agent is selected from the group consisting of attapulgite and quaternized attapulgite.

106. (Original) The high fluid loss spotting pill of claim 65 wherein said suspending agent is selected from the group consisting of attapulgite and quaternized attapulgite.

107. (Original) The high fluid loss spotting pill of claim 68 wherein said suspending agent is selected from the group consisting of attapulgite and quaternized attapulgite.

108. (Currently amended) ~~The high fluid loss spotting pill of claim 2 wherein A~~
high fluid loss spotting pill comprising:

a carrier fluid;

an LCM consisting essentially of an amount and form of acid soluble mineral
particulate;

said amount and said form being adapted to form a substantially impermeable,

acid soluble filtercake upon injection of said composition with said carrier

fluid into said wellbore and defluidization.

a first quantity of weighting agent; and

a second quantity of suspending agent effective to suspend said weighting agent,

wherein said suspending agent comprises a ratio of attapulgite to

quaternized attapulgite.

1 109. (Currently amended) ~~The high fluid loss spotting pill of claim 27 wherein~~
2 ~~said suspending agent comprises~~ A high fluid loss spotting pill comprising:

3 a carrier fluid;

4 an LCM consisting essentially of an amount and form of acid soluble mineral
5 particulate;

6 said amount and said form being adapted to form a substantially impermeable,
7 acid soluble filtercake upon injection of said composition with said carrier
8 fluid into said wellbore and defluidization.

9 a first quantity of weighting agent; and

10 a second quantity of suspending agent effective to suspend said weighting agent,

11 said suspending agent comprising a ratio of attapulgite to quaternized
12 attapulgite;

13 wherein said first quantity of weighting agent is adapted to produce a density
14 substantially the same as the density of a drilling fluid used to drill a
15 formation being treated.

1 110. (Currently amended) ~~The high fluid loss spotting pill of claim 57 wherein~~
2 ~~said suspending agent comprises~~ A high fluid loss spotting pill comprising:

3 a carrier fluid;

4 a first quantity of weighting agent adapted to produce a density substantially the
5 same as the density of a drilling fluid used to drill a formation being
6 treated;

7 a second quantity of suspending agent effective to suspend said weighting agent
8 in said carrier fluid, said suspending agent comprising a ratio of attapulgate
9 to quaternized attapulgate;
10 an amount of LCM consisting essentially of calcium carbonate particulate;
11 said quantity, said amount, and said form being adapted to form a substantially
12 impermeable, acid soluble filtercake upon injection of said composition
13 with an effective carrier fluid into said wellbore and defluidization.

1 111. (Currently amended) The high fluid loss spotting pill of claim [[113]] 109
2 wherein said ratio is about 50:50.

1 112. (Currently amended) The high fluid loss spotting pill of claim [[114]] 110
2 wherein said ratio is about 50:50.

1 113. (Original) The high fluid loss spotting pill of claim 115 wherein said ratio
2 is about 50:50.

1 114. (New) A high fluid loss spotting pill comprising:
2 a carrier fluid;
3 a first quantity of weighting agent adapted to produce a density substantially the
4 same as the density of a drilling fluid used to drill a formation being
5 treated;
6 a second quantity of suspending agent effective to suspend said weighting agent
7 in said carrier fluid;
8 an LCM consisting essentially of:
9 a third quantity of acid soluble mineral fiber; and;

10 an amount of acid soluble mineral particulate wherein said acid soluble
11 mineral particulate is a combination of granular form and flake form;
12 said third quantity, said amount, and said form being adapted to form a
13 substantially impermeable, acid soluble filtercake upon injection of said
14 composition with an effective carrier fluid into said wellbore and
15 defluidization.